

A. CLASSIFICATION SUBJECT MATTER

IPC 7 B01 02 B01D67/00 A61K9/00 B01 02

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 B01D A61K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

WPI Data, EPO-Internal, COMPENDEX, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 02 20877 A (SPOHR REIMAR ;SCHWERIONENFORSCH GMBH (DE); KORCHEV YURI (GB); YOSH) 14 March 2002 (2002-03-14) figure 5 --- -/--	1-13,24, 25

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents :

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier document but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

"G" document member of the same patent family

Date of the actual completion of the international search

5 February 2004

Date of mailing of the international search report

3. 02. 04

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Goers, B

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	<p>PATENT ABSTRACTS OF JAPAN vol. 012, no. 037 (C-473), 4 February 1988 (1988-02-04) -& JP 62 186904 A (KIYOSHI SUGAI), 15 August 1987 (1987-08-15) abstract; figures 1,3-5,8,10 -& DATABASE WPI Section Ch, Week 198738 Derwent Publications Ltd., London, GB; Class J01, AN 1987-268003 XP002226679 & JP 62 186904 A (SUKAI K), 4 February 1988 (1988-02-04) abstract</p>	1-13,24, 25
A	<p>--- US 5 736 050 A (PASTERNAK CHARLES A ET AL) 7 April 1998 (1998-04-07) column 3, line 18 -column 4, line 44; claims 1,3,5,8; figure 2; examples 1,2</p>	1,5,24
A	<p>--- US 5 593 560 A (INOUE NOBORU) 14 January 1997 (1997-01-14) column 9, line 26 -column 10, line 40; figure 1</p>	1-3,24
A	<p>--- DE 198 53 286 A (SCHWERIONENFORSCH GMBH) 25 May 2000 (2000-05-25) figure 1</p>	1,24
A	<p>--- PATENT ABSTRACTS OF JAPAN vol. 002, no. 126 (C-025), 21 October 1978 (1978-10-21) & JP 53 091079 A (TOKUYAMA SODA CO LTD), 10 August 1978 (1978-08-10) abstract -& DATABASE WPI Section Ch, Week 197837 Derwent Publications Ltd., London, GB; Class J01, AN 1978-66151A XP002269273 & JP 53 091079 A (TOKUYAMA SODA KK) abstract</p>	1,24
A	<p>--- WO 02 36230 A (HAMMERSTEDT ROY H ;LAREDO WALTER (US); ALLCOCK HARRY R (US); BENDE) 10 May 2002 (2002-05-10) page 3, line 24 -page 4, line 3; claims 1,7</p> <p>-----</p>	1,14,24

Patent cited in search report		Publication date	Patent member		Publication date
WO 0220877	A	14-03-2002	DE	10044565 A1	04-04-2002
			WO	0220877 A1	14-03-2002
			EP	1315851 A1	04-06-2003

JP 62186904	A	15-08-1987	NONE		

US 5736050	A	07-04-1998	AU	5821094 A	15-08-1994
			DE	69409223 D1	30-04-1998
			DE	69409223 T2	16-07-1998
			EP	0678051 A1	25-10-1995
			WO	9415701 A1	21-07-1994
			JP	8505318 T	11-06-1996

US 5593560	A	14-01-1997	DE	4308390 A1	23-09-1993
			JP	2109828 C	21-11-1996
			JP	5345147 A	27-12-1993
			JP	8000210 B	10-01-1996

DE 19853286	A	25-05-2000	DE	19853286 A1	25-05-2000
			AT	228351 T	15-12-2002
			DE	59903606 D1	09-01-2003
			DK	1148869 T3	10-03-2003
			WO	0030606 A1	02-06-2000
			EP	1148869 A1	31-10-2001

JP 53091079	A	10-08-1978	JP	1450194 C	11-07-1988
			JP	62060125 B	15-12-1987

WO 0236230	A	10-05-2002	AU	3395802 A	15-05-2002
			EP	1345760 A2	24-09-2003
			US	2002088748 A1	11-07-2002
			WO	0236230 A2	10-05-2002
